



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
02.04.2003 Bulletin 2003/14

(51) Int Cl.7: **H04B 7/00**, H03G 3/00,
H04L 27/00

(43) Date of publication A2:
04.10.2000 Bulletin 2000/40

(21) Application number: **99201010.8**

(22) Date of filing: **01.04.1999**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Agah, Michael D,**
Sunnyvale, California 94086 (US)

(74) Representative: **Holt, Michael**
Texas Instruments Ltd.,
PO Box 5069
Northampton, Northamptonshire NN4 7ZE (GB)

(30) Priority: **01.04.1999 US 53192**

(71) Applicant: **Amati Communications Corporation**
San Jose, CA 95124 (US)

(54) **Adaptive power amplification for cable modems**

(57) A high performance data communications system (e.g., modem, transceiver, etc.) that has improved control over power dissipation is disclosed. The data communications system allows its power dissipation to be adaptively controlled so as to provide substantially improved control over the power dissipation of the data communications system than has been conventionally

possible. The control over power dissipation can be performed only on transmissions, only on receptions, or on both transmissions and receptions. By suitably controlling the power dissipation, the power dissipation of the data communications system can be substantially reduced at lower power settings, while still supporting the higher power settings.

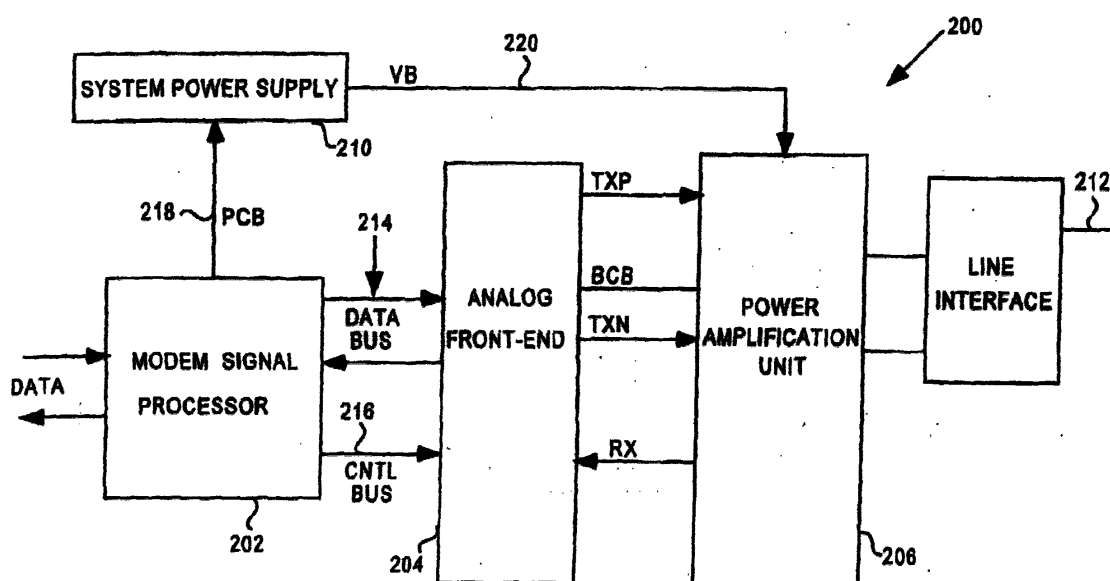


FIG. 2



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 20 1010

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X A	US 5 548 616 A (HEINONEN JARMO ET AL) 20 August 1996 (1996-08-20) * column 12, line 12 - line 27; figures 3,11 *	1-4,10, 11 5-9,15	H04B7/00 H03G3/00 H04L27/00
X A	US 5 420 536 A (BRIFFA MARK A ET AL) 30 May 1995 (1995-05-30) * column 9, line 49 - line 58; figure 7 *	1,5-7, 11-14 8,9,15	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H04B H03G H04L
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 4 February 2003	Examiner Farese, L
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 20 1010

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-02-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5548616	A	20-08-1996	AU 3546295 A 27-03-1996
			CA 2199482 A1 14-03-1996
			DE 69524234 D1 10-01-2002
			DE 69524234 T2 25-07-2002
			EP 0777933 A1 11-06-1997
			WO 9608080 A1 14-03-1996

US 5420536	A	30-05-1995	AU 5781794 A 22-09-1994
